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T Heimann, S Münzing, HP Meinzer... - Information Processing in ..., 2007 - Springer
... A reliable initialization of the model using a global search in a down-sampled version of the image, and a robust **deformable surface model** with enough ... in [1]. It is built from a set of segmented **training** images and consists of two parts: A geometrical model describing the shape ...
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A Ghanei, H Soltanian-Zadeh, A Ratkewicz... - Medical Physics, 2001 - link.aip.org
... In this work, we have proposed a three-dimensional (3D) **deformable surface model** for automatic segmentation of prostate. ... Each of these networks was trained using a small portion of a **training** image segmented by an expert sonographer. ...
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Shape constrained deformable models for 3D medical image segmentation
J Weese, M Kaus, C Lorenz, S Lobregt... - ... Processing in Medical ..., 2001 - Springer
... The pose and the parameters of the shape model are adapted together with the mesh vertices representing the elastically **deformable surface model**. ... References 1. TF Cootes, CJ Taylor, DH Cooper, and J. Graham: Active Shape Models, their **Training** and Application. Comp. ...
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CURRENT METHODS IN MEDICAL IMAGE SEGMENTATION1
DL Pham, C Xu... - Biomedical Engineering, 2000 - annualreviews.org
... The most widely applied use in medical imaging is as a classifier (40, 66), in which the weights are determined by using **training** data and the ANN is then used to segment ... An example of using a **deformable surface model** for this application is shown in Figure 6 (see color insert ...
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Measuring size and shape of the hippocampus in MR images using a deformable shape model
D Shen, S Moffat, SM Resnick... - Neuroimage, 2002 - Elsevier
... MICCAI (1999). 3. TF Cootes, D. Cooper, CJ Taylor and J. Graham, Active shape models-their **training** and application. ... 11. A. Ghanei, H. Soltanian-Zadeh and JP Windham, A 3D **deformable surface model** for segmentation of objects from volumetric data in medical images. ...
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A review of deformable surfaces: topology, geometry and deformation
J Montagnat, H Delingette... - Image and vision computing, 2001 - Elsevier
... Author Keywords: **Deformable surface**; **Model** representation; Surface geometry; Surface topology; 3D reconstruction. ... For instance, statistical shape variations from a **training** set [28] may be used to constrain the deformation of a geometric model. ...
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M Vaillant... - Information Processing in Medical Imaging, 1999 - Springer
... formation is a reparameterization of the subject's surface, for which the subject's central sulcus has exactly the coordinates of the average central sulcus of the **training** set ... Davatzikos, C., Bryan, RN: Using a **deformable surface model** to obtain a shape representation of the cortex ...
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Deformable segmentation of 3-D ultrasound prostate images using statistical texture matching method
Y Zhan... - Medical Imaging, IEEE Transactions on, 2006 - ieeexplore.ieee.org
... in our **deformable surface model**, in order to characterize and differen- tiate image textures locally and adaptively. In the **training** stage, all G-SVMs are trained to capture the texture priors around its corresponding subsurface in a group of **training** samples. ...
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Using a statistical shape model to extract sulcal curves on the outer cortex of the human brain
X Tao, JL Prince... - Medical imaging, IEEE ..., 2002 - ieeexplore.ieee.org
... CURVES The model built using the algorithm described above can now be used to search for and label sulcal curves in a brain image out- side the **training** set, whose outer cortex and spherical map of the outer cortex are obtained using a **deformable surface model** [9]. To do ...
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